

**ENHANCED SMART DSL SYSTEMS FOR LDSL****ABSTRACT OF THE DISCLOSURE**

[00113] A "Smart DSL System" for addressing the performance objectives of LDSL and examples of smart systems for LDSL are disclosed. In accordance with embodiments of the invention, there is disclosed a method for implementing smart DSL for LDSL systems. Embodiments of the method include presenting a number of spectral masks that are available on the LDSL system, and selecting from the number of spectral masks an upstream mask and a downstream mask wherein the upstream mask and the downstream mask exhibit complimentary features.